



DOE ENERGISE Program

Electric Access System Enhancement (EASE)

Principal Investigator: Percy Haralson

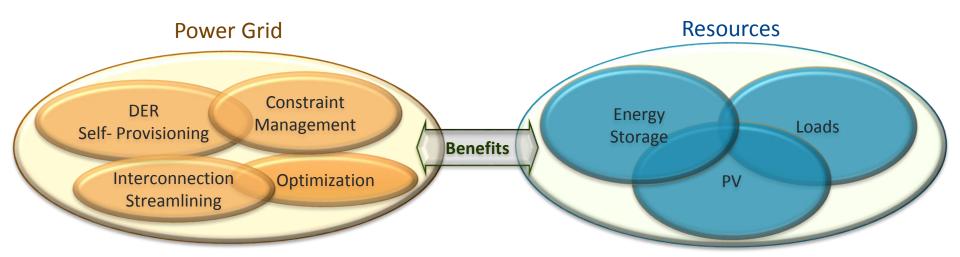
Project Members: Salman Kahrobaee, Andrew Ioan, Alex Vallejo

Project Team: SCE, SGS, NREL

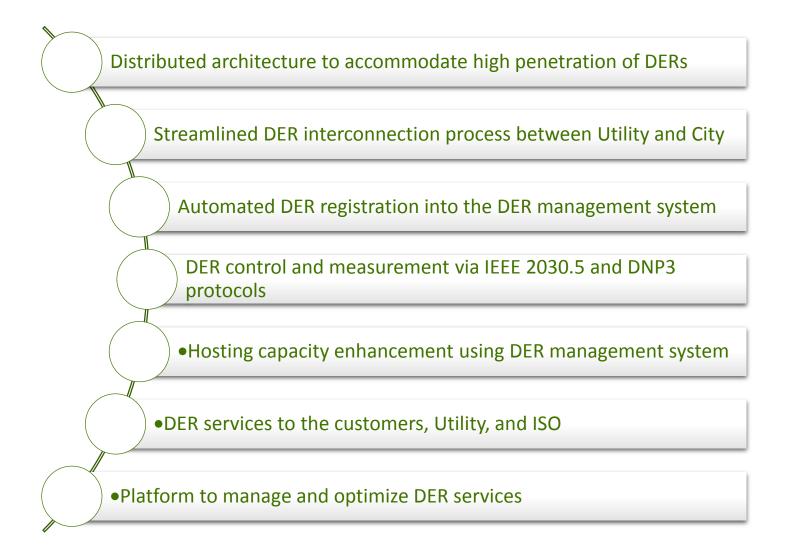
EASE Project

Key Idea

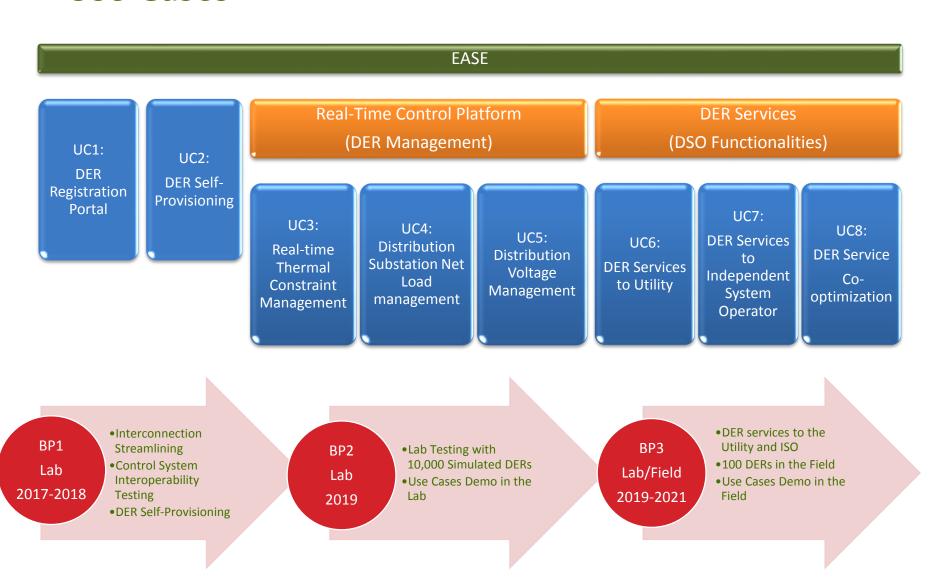
Enhance access to DER information, ability to provide services and optimization of resources by demonstrating an interoperable distributed control architecture leading to higher penetration of solar PVs.



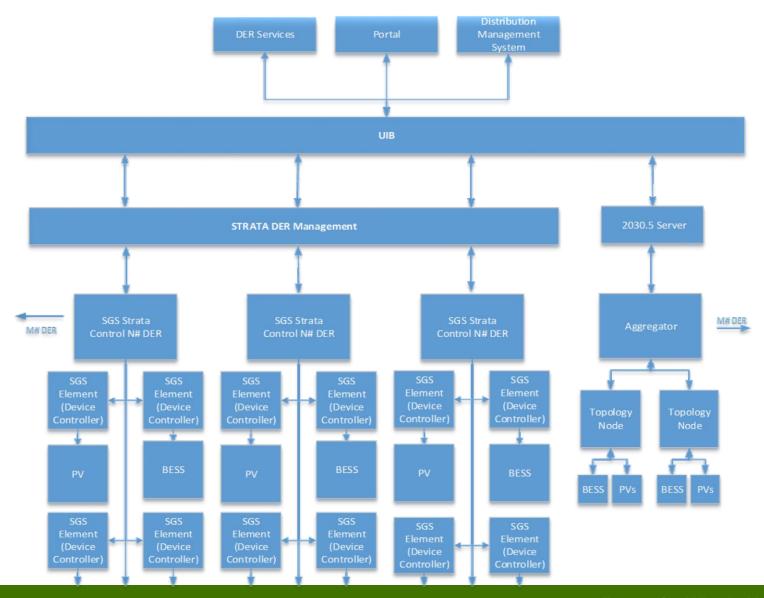
Project Objectives



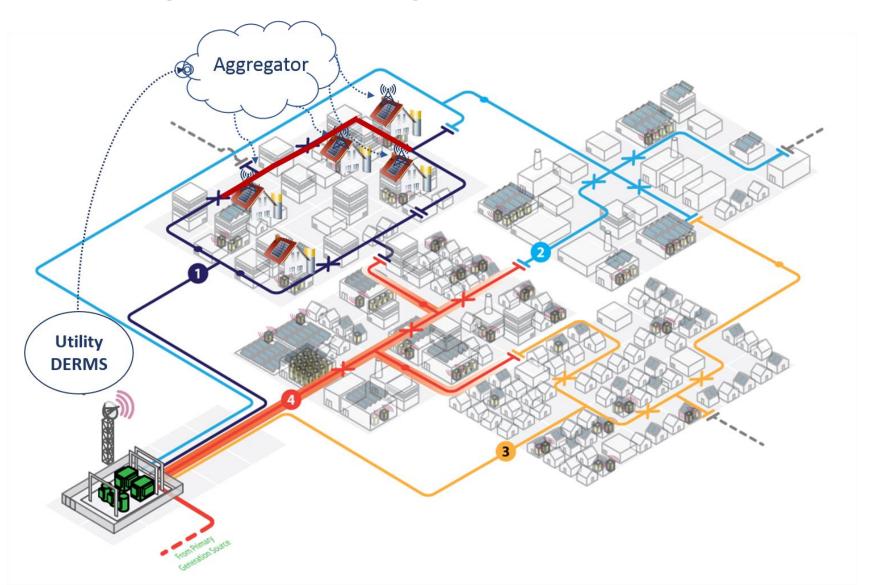
Use Cases



Challenges: Scalability



Challenges: DER Management



Challenges: DER Services

- Formation of a business model with financial motivation for DER participation
- Provision of services considering DER technology constraints
- Communication architecture and cyber security
- Short-term forecasting of generation and demand
- Optimization with multiple objective functions
- Avoiding double counting of benefits and costs
- Scalability of the solution

Thank You!

